

Title (en)

Capacitive bulk acoustic wave disk gyroscopes with self-calibration

Title (de)

Kapazitive Volumenwellen-Scheiben-Gyroskope mit Selbstkalibrierung

Title (fr)

Gyroscopes à disque à onde acoustique de volume et couplage capacitatif avec auto-étalonnage

Publication

EP 2078925 A3 20111221 (EN)

Application

EP 08172158 A 20081218

Priority

US 698208 A 20080108

Abstract (en)

[origin: EP2078925A2] The apparatus in one embodiment may have capacitive bulk acoustic wave disk gyro operated in a closed loop mode. A self-calibration system may be operatively coupled to the capacitive bulk acoustic wave disk gyroscope. Self-calibration of gyro bias of the gyro may be implemented by interchanging an anti-nodal axis with a nodal axis of the gyro.

IPC 8 full level

G01C 19/56 (2006.01)

CPC (source: EP US)

G01C 19/5698 (2013.01 - EP US)

Citation (search report)

- [A] US 2007220971 A1 20070927 - AYAZI FARROKH [US], et al
- [AD] HOURI JOHARI ET AL: "High-frequency capacitive disk gyroscopes in (100) and (111) silicon", MICRO ELECTRO MECHANICAL SYSTEMS, 2007. MEMS. IEEE 20TH INTERNATIONAL CONFERENCE ON, IEEE, PI, 1 January 2007 (2007-01-01), pages 47 - 50, XP031203763, ISBN: 978-1-4244-0950-1, DOI: 10.1109/MEMSYS.2007.4433009

Cited by

CN106840200A; CN105698781A; CN105737810A; CN109945851A; CN103697876A; EP2696169A3; US9091544B2; US10746548B2; US8631700B2; US9869552B2; US9709595B2; WO2012128796A1; US8616056B2; US8919199B2; US8794068B2; US11656077B2

Designated contracting state (EPC)

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Designated extension state (EPC)

AL BA MK RS

DOCDB simple family (publication)

EP 2078925 A2 20090715; EP 2078925 A3 20111221; EP 2078925 B1 20150422; JP 2009162760 A 20090723; JP 5554930 B2 20140723; US 2009173157 A1 20090709; US 7874209 B2 20110125

DOCDB simple family (application)

EP 08172158 A 20081218; JP 2009002270 A 20090108; US 698208 A 20080108